

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/087144 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 31/436, 31/167, 31/08, A61P 17/00 // (A61K 31/436, 31:167) (A61K 31/436, 31:08)**

CH-4056 Basel (CH). WEISS, Carl-Martin [DE/DE]; Ritterstrasse 57a, 79541 Lörrach-Haagen (DE).

(21) International Application Number:

PCT/EP2004/003515

(22) International Filing Date: 2 April 2004 (02.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0307869.8 4 April 2003 (04.04.2003) GB

(71) Applicant (for all designated States except AT, US): NOVARTIS AG [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).

(71) Applicant (for AT only): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GRASSBERGER, Maximilian [AT/AT]; Schaumburgergasse 12/7, A-1040 Wien (AT). HIRSCH, Stefan [DE/DE]; Theodor-Heuss-Strasse 21A, 79539 Lörrach (DE). SEKKAT, Nabila [MA/CH]; Davidsbodenstrasse 34,

(74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/087144 A1

(54) Title: COMBINATION OF A MACROLIDE AND A LOCAL ANESTHETIC FOR THE TREATMENT OF DERMATOLOGICAL DISEASES

(57) Abstract: Synergistic combinations of a macrolide T-cell immunomodulator or immunosuppressant such as 33-epichloro-33-desoxyascomycin and a local anaesthetic such as lidocaine, polidocanol or prilocaine are provided, which are useful in particular in the treatment of dermatological diseases such as atopic, contact or seborrhoeic dermatitis, psoriasis, acne, rosacea, post-peel, pruritus, skin burning, or itching; and associated pain.